APPLIED MATHEMATICS AND COMPUTATION

VOLUME 53

G. P. POKHARIYAL AND A. J. RODRIGUES
An Accurate Epidemiological Model 1

LEONID YU. ZASLAVSKY
An Adaptive Algebraic Multigrid for Multigroup Neutron Diffusion Reactor Core Calculations 13

DIMITRIOS KRAVVARITIS, GEORGE PANTELIDES, AND NIKOLAOS S. PAPAGEORGIOU
Existence of Support Prices for a Discrete Time Growth Model with Uncertainty 27

M. MURASKIN
Oscillations within Oscillations 45

K. LIU AND R. SKELTON
A New Formulation of Q-Markov Covariance Equivalent Realization 83

B. S. LALLI, Y. H. YU, AND B. T. CUI
Oscillation of Hyperbolic Equations with Functional Arguments 97

DAVID A. CICCI
Comparison of Biasing Parameter Computational Techniques in Ridge-Type Estimation 111

ERIC KINCANON
Approximate Solution to the Gel'Fand-Levitan Equation 121

MAN KAM KWONG
Sweeping Algorithms for Inverting the Discrete Ginzburg-Landau Operator 129

J. DING, Q. DU, AND T. Y. LI
Higher Order Approximation of the Frobenius-Perron Operator 151

JAMES D. EVANS, JOHN H. HUBBELL, AND
VALERIE D. EVANS
Exact Series Solution to the Epstein-Hubbell
Generalized Elliptic Type Integral using Complex
Variable Residue Theory 173

LUCAS JÓDAR AND MATILDE LEGUA
Solving Second-Order Matrix Differential Equations
with Regular Singular Points Avoiding the Increase
of the Problem Dimension 191

PAUL B. SLATER
World Population Distribution: Smoothed
Representations 207

PAUL B. SLATER
International Migration and Air Travel:
Global Smoothing and Estimation 225

JOHN C. ADAMS
MUDPACK-2: Multigrid Software for Approximating
Elliptic Partial Differential Equations on
Uniform Grids with any Resolution 235

ZHIQIANG CAI
Norm Estimates of Product Operators with
Application to Domain Decomposition 251

CLYDE MARTIN AND VICTOR SHUBOV
Probability Measures, Appel Polynomials
and Polynomial Approximation 277